



Emailing: 2nd Qtr 2010 Clean Air Quarterly Report.pdf
Ryan Callison to: Elizabeth Braziel

04/05/2010 01:34 PM

History: This message has been replied to.

Liz,

Please find the attached 2nd FY10 Quarterly report for Cherokee Nation's Air Program.

Thanks,



Ryan 2nd Qtr 2010 Clean Air Quarterly Report.pdf



CHEROKEE NATION

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April 5, 2010

Elizabeth Braziel, Project Officer
Clean Air State/Tribal Operations Section, 6PD-S
U.S. EPA Region VI
1445 Ross Avenue, Suite 1200
Dallas, Texas 75202-2733

Dear Ms. Braziel,

Enclosed is the Cherokee Nation Environmental Programs - Inter-Tribal Environmental Council's (ITEC), **FY10 Second Quarter Report** for the Clean Air grant (XA-96674301-1) (FY10). The Cherokee Nation's Accounting Department will forward the financial status reports. If you have any inquiries or need additional information, feel free to contact Ryan Callison at (918) 453-5093.

Sincerely,

Tom Elkins
Environmental Programs Administrator
Cherokee Nation Environmental Programs

CHEROKEE NATION - ITEC

**Clean Air Act, Section 103 Grant
(XA-96674301-1 FY10)**

**FY10 Second Quarter Report
1-1-10 thru 3-31-10**

submitted to the

**Clean Air Section
U.S. Environmental Protection Agency, Region VI**

Dallas, Texas

for the

Inter-Tribal Environmental Council (ITEC)

prepared by the

**Cherokee Nation
Environmental Programs
P.O. Box 948
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CHEROKEE NATION - ITEC

Grant Information

Quality Assurance Dates:

| | |
|-------------------------|---|
| Criteria: | Approved January 9, 2009 Extended to March 9, 2010 Submitted for Review Comments received from EPA Re-submitted April 7th, 2010 |
| PM2.5: | Approved July 17th, 2009 Will be submitted in May, 2010 |
| IMPROVE: | National Program Approved |
| CASTNet: | National Program Approved |
| Mercury (MDN): | National Program Approved |
| National Trends: | National Program Approved |
| AMNet (Tekran): | Submitted to EPA CAMD |
| Toxics: | Currently not in use. |
| CNEP QMP: | Approved May, 28th 2009 |

Task 1: Criteria Pollutants & Meteorological Ambient Air Monitoring Quarterly Report

Equipment operational during this quarter: ✓

Tahlequah Shelter (40-021-9002):

Ozone, & meteorological equipment

Newkirk Shelter (IMPROVE) (40-071-9010):

Ozone, NO_y, & meteorological equipment

Pryor Shelter (40-097-9014):

Ozone, NO_y, & meteorological equipment

Stilwell Shelter (NCORE-CASTNet) (40-001-9009):

Ozone, NO_y, CASTNet dry deposition filter pack, mercury deposition network (MDN), meteorological equipment, and continuous & non-continuous ammonia sampling.

Marble City Shelter (40-135-9015):

Ozone, PM_{2.5} (2) & meteorological equipment

The CNEP criteria pollutant QAPP was revised and submitted to EPA in February 2010. *awaiting approval*

Preparations for the budgeted Pryor air monitoring site upgrades. Upgrades include: ✓
Ozone, NO_y, digital datalogger, manifold system, NO_y tower, and calibration systems. Site upgrades were completed the week of March 22, 2010.

Maintained and updated all site reporting forms (i.e., audit sheets, inventory, etc.)

Performed quarterly maintenance and audits at all sites. ✓ *that would be covered*

Task 2: IMPROVE Monitoring Quarterly Report

IMPROVE sampling was conducted on a 1/3 sampling schedule. Samples are being ✓
collected every Tuesday.

CNEP IMPROVE data and reports are available at:

http://vista.cira.colostate.edu/IMPROVE/Data/IMPROVE/improve_data.htm

UC Davis has approved the re-location of the IMPROVE site to the Stilwell NCORE location. ✓

Continued work on the IMPROVE sampling pump box enclosure at Stilwell in preparation for ✓
the sampler move.

Task 3: CASTNet monitoring Quarterly Report

Quarterly data capture and completion was 100%. ✓

The Nitrolux ammonia instrument located in the CASTNet building was returned to the vendor for the annual calibration. The instrument was received back from the factory on February 24th 2010. The instrument is currently having software issues that should be resolved soon. Quarterly data capture for this instrument was 0%.

Illinois State ammonia sampling project continues at Stilwell CASTNet.

University of Pittsburg ALPHA ammonia sampling project continues at CASTNet.

Quarterly audits and maintenance conducted on all sampling equipment.

Discussion with EPA CAMD and MACTEC about datalogger upgrades.

Independent quarterly audits of all parameters conducted by Mactec subcontractor – Inquest Environmental (same contractor that performs the CNEP network audits).

Task 4: NCORE Trace Gas Monitoring Quarterly Report

The NCORE site is operational and collecting data. ✓

Quarterly maintenance was conducted on each NCORE instrument.

Research is currently underway to suspend all filter based PM activities and install a continuous MetOne BAM for PM10 measurements. The current onsite PM2.5 BAM and the proposed PM10 BAM will provide for PM Course measurements needed for the NCORE SITE. Currently CNEP is utilizing a collocated pair of RP2025 PM-2.5-10 instruments to obtain PM Course. Decisions with PM sampling will be finalized during the 3rd quarter. ✓

Task 5: Mercury Deposition Network (MDN) Monitoring Quarterly Report

The Stilwell MDN sampler is online with samples being collected every Tuesday. ✓

Stilwell is the only CNEP MDN site currently online. Previous year's site data may be obtained through the links below.

CNEP staff replaced the LODA Electronics Aerochem metrics collector with the NCON collector approved by NADP. The new collector has less moving parts and a more efficient heating element. All equipment functioning properly.

Site specific MDN data reports and yearly summaries are available at the following website:
<http://nadp.sws.uiuc.edu/sites/siteinfo.asp?id=OK99&net=MDN>

Task 6: National Mercury Initiative Quarterly Report (Amended)

The National Mercury Initiative is now the "Atmospheric Mercury Network – AMNet"

The CNEP site consists of the AMNet program Tekran model 2537A analyzer with model 1130 and 1135 speciation units.

Data recovery for the quarter is 95%.

CNEP was awarded a contract with EPA Clean Air Markets Division for supplemental funding to assist in operating the AMNet Tekran site. The contract began on 1-1-10 (CY10; \$65,002). Updates to this project will be provided to EPA throughout the project period and through Quarterly Reports. Funding for this project comes exclusively from CAMD.

Despite being funded by EPA CAMD, CNEP will continue to list and detail major milestones of this project.

CNEP completed the Tekran Mercury QAPP and submitted the document to EPA CAMD.

CNEP completed the Tekran Site Assessment Report.

Regular communication with Mark Sather concerning passive sampling and Tekran data uploads.

Task 7: Mobile Particulate Monitoring and Ozone Monitoring Quarterly Report

CNEP will continue to work with the Osage Nation in FY10-11 with PM sampling.

CNEP has provided Osage Nation with onsite assistance in operation and maintenance of the mobile monitor (the mobile monitoring program is included in the CNEP criteria pollutant QAPP).

The start date for sampling at Osage Nation was 1-13-10.

2nd quarter maintenance performed on the ozone analyzer inside the mobile unit.

Provided Osage Nation AirNow account information for data viewing and sharing.

AirNow training was provided to Osage Nation.

Provided Osage Nation with a sampler training and troubleshooting course.

W. really
don't need
updates or
HKR contract

not 103
funding

Task 8: Technical Assistance to Tribes Quarterly Report

Performed 2nd quarter independent audits for Sac & Fox Nation, Delaware Nation, Quapaw Tribe.

Initial discussions with Choctaw Nation about ozone audits at the Smithville Oklahoma site.

PQAO discussions with Quapaw Nation.

QAPP discussions with Zuni Pueblo.

Information Exchange (air date) discussions with Osage Nation.

Task 9: EI Preparation, Training, and IPP Development Quarterly Report

The IPP has been completed and submitted to EPA R6. Comments were received and re-submitted to EPA for approval. IPP has been approved. ✓

The EI QAPP has been completed and submitted in February 2010. Comments were received and the document has been re-submitted for approval.

Task 10: Monitoring Network Data Management and Analysis Quarterly Report

All applicable site data was submitted to AQS for accuracy and compliance purposes.

Precision and Accuracy information has been developed and loaded into AQS for 2nd Qtr.

No violations of the air standards were observed (for full information see the AQS database).

Task 11: CNEP Professional Training and Development Quarterly Report

ITEP GIS Course; Las Vegas, NV. - April Hathcoat.

EPA 40-hr. HAZWOPER; Shawnee, OK. - Larry Scrapper, Philip Ketcher

CPR and First Aid training, OK. - all staff - ?

EPA 8hr. HAZWOPER refresher, OK. - all staff

Task 12: Tribal Air Monitoring Grant Objectives & Priorities

Any applicable monitoring or grant requirements were conducted according to the outline in Task 12 per the CNEP grant.

Task 13: Energy Production Funds and Ambient Air Monitoring Quarterly Report

Energy production funds were utilized for staffing time to provide maintenance and normal operational procedures for the Newkirk and Pryor sites. These sites are close proximity to two coal fired power plants. The Newkirk site is collocated with the Cherokee Nation Department of Energy (DOE) wind energy study. Meteorological data from the Newkirk station is also utilized for this DOE study. Various instrument consumable supplies were purchased for annual maintenance.

Replenishment of supplies and consumables for ozone monitoring season.

Quarterly maintenance activities of both sites have been conducted.

Task 14: Sampling and Analysis of Toxic Metals at NCORE (**Amended Removed)

CNEP has requested that this task be suspended until the CNEP contract lab (ERG) has established an approved analytical analysis method for metals (specifically lead).

Currently metals or lead sampling isn't a requirement at NCORE sampling locations.

Discussions with EPA R6 about installing Lead samplers at NCORE for FY11.

Task 15: Relocate the Marble City station to Roland Oklahoma.

CNEP submitted a site relocation PowerPoint summary to EPA, Arkansas, and ODEQ.

CNEP chose a site on the Cherokee Nation Entertainment's Roland Property.

A memorandum of agreement (MOA) was developed and signed between CNEP and CNE for use of the Roland property for the monitoring site.

Funding for the relocating of the station will be utilized from Task 6 and 14 related funding.

EPA received approval from EPA R6 to proceed with site setup at Roland.

Site pad has been completed. Tentative relocation is scheduled for June 2010.

Tentative monitored parameters include: Ozone, NOx, and meteorological instruments.

MISCELLANEOUS

Arkansas Dept of Environmental Quality contacted CNEP about installing PM2.5 samplers at the Roland location.